ABSTRACT OF THE DISCLOSURE

[00107]   A system for detecting, monitoring, reporting, and managing congestion in a fabric at the port and fabric levels. The system includes multi-port switches in the fabric with port controllers that collect port traffic statistics. A congestion analysis module in the switch periodically gathers port statistics and processes the statistics to identify backpressure congestion, resource limited congestion, and over-subscription congestion at the ports. A port activity database is maintained at the switch with an entry for each port and contains counters for the types of congestion. The counters for ports that are identified as congested are incremented to reflect the detected congestion. The system includes a management platform that periodically requests copies of the port congestion data from the switches in the fabric. The switch data is aggregated to determine fabric congestion including the congestion level and type for each port and congestion sources.